



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form ~~4-73~~ ~~4-73~~

(Use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Complete if Known

Application Number	10/530,392
Filing Date	04/06/2005
First Named Inventor	Haney, Philip J.
Art Unit	3663
Examiner Name	Mancho, Ronnie M.
Attorney Docket Number	20030117-US

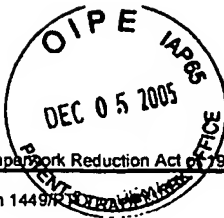
U. S. PATENT DOCUMENTS

[illegible]

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/530,392
Filing Date	04/06/2005
First Named Inventor	Haney, Philip J.
Art Unit	3663
Examiner Name	Mancho, Ronnie M.
Attorney Docket Number	20030117-US

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CN		MAKRINOS, STEPHEN T. et al., "WHITE PAPER Ultra Wideband Multi Sensor System For Sense Through The Wall Surveillance For Personnel Detection and Identification", July 15, 2003, pp. 1-7, CACI Technologies Incorporated, NJ.	
		SROUR, NINO, "Unattended Ground Sensors A Prospective for Operational Needs and Requirements", October 1999, pp. 1-5, US Army Research Laboratory.	
		KREUCHER, CHRIS et al., "Multitarget Tracking Using a Particle Filter Representation of the Joint Multitarget Density", pp. 1-15.	
		BOSE, BISWAJIT et al., "Ground Plane Rectification by Tracking Moving Objects", pp. 1-8, Massachusetts Institute of Technology, Cambridge, MA.	
		KIRUBARAJAN, T. et al., "Tracking Ground Targets with Road Constraints Using an IMM Estimator", IEEE, 1998, pp. 5-12.	
✓		RICHARDS, P.W., "CONSTRAINED KALMAN FILTERING USING PSEUDO-MEASUREMENTS", 1995, pp. 10/1-10/5, The Institution of Electrical Engineers, London, UK.	
CN		ANGELOVA, DONKA, et al., "AN IMPDAF SOLUTION TO BENCHMARK PROBLEM FOR TRACKING IN CLUTTER AND STANDOFF JAMMER", 1999, [online] [retrieved on 7/21/2004] Retrieved from the internet <URL: http://www.isn.ethz.ch/onlinepubli/publihouse/infosecurity/volume_2/F6/F6?index.htm>, pp.1-13.	

Examiner Signature		Date Considered	3/14/07
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number	10/530,392
Filing Date	04/06/2005
First Named Inventor	Haney, Phillip J.
Art Unit	3683
Examiner Name	Mancho, Ronnie M.
Attorney Docket Number	20030117-US

PAGE 4/8 * RCVD AT 3/10/2008 8:08:54 AM [Eastern Standard Time] * SVR:USPTO-EPXRF-2/4 * DNS:2738300 * CSID:603 888 4798 * DURATION (mm:ss):02:58

PTO/SB/088 (06-03)

Approved for use through 07/31/2006. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/530,392
Filing Date	04/06/2005
First Named Inventor	HANEY, Philip J.
Art Unit	3663
Examiner Name	MANCHO, Ronnie M
Attorney Docket Number	20030117-US

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CN		PCT International Search Report dated February 24, 2006 of International Application No. PCT/US2004/032706 filed December 4, 2004.	

Examiner Signature	<i>Chungmays</i>	Date Considered	3/14/07
--------------------	------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.